PATENT COOPERATION TREATY

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From the INTERNATIONALY SEARCHING AUTHORITY	PCT					
D YOUNG & C DIARY 16.09.03 London EC4A TUA ANSO ENTRY FOR	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)					
	Date of mailing (day/month/year) 16/07/2003					
Applicant's or agent's file reference P013532W0	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/GB 03/01255	International filing date (day/month/year) 24/03/2003					
Applicant IMPERIAL COLLEGE INNOVATIONS LIMITED						
1. X The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is normal international Search Report; however, for more definitional Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accounts.	ns of the International Application (see Rule 46): ally 2 months from the date of transmittal of the stails, see the notes on the accompanying sheet.					
2. The applicant is hereby notified that no International Searc Article 17(2)(a) to that effect is transmitted herewith.	h Report will be established and that the declaration under					
applicant's request to forward the texts of both the pro-	onal fee(s) under Rule 40.2, the applicant is notified that: en transmitted to the International Bureau together with the otest and the decision thereon to the designated Offices. plicant will be notified as soon as a decision is made.					
4. Further action(s): The applicant is reminded of the following:						
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for International publication. Within 19 months from the priority date, a demand for International preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).						
wishes to postpone the entry into the national phase until 30 m. Within 20 months from the priority date, the applicant must perform all designated Offices which have not been elected in priority date or could not be elected because they are not bour	orm the prescribed acts for entry into the national phase the demand or in a later election within 19 months from the					
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Bernd Stephan					

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French. the letter must be in French.





The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.





(PCT Article 18 and Rules 43 and 44)

	Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
P013532W0 International application No.		ACTION International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
ł	PCT/GB 03/01255	24/03/2003	28/03/2002				
	Applicant	•					
	IMPERIAL COLLEGE INNOVATION	ONS LIMITED	·				
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	This international Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	nority and is transmitted to the applicant				
	This International Search Report consists	of a total of sheets.					
	X It is also accompanied by	a copy of each prior art document cited in this	report.				
-	Basis of the report	. ,					
	 a. With regard to the language, the language in which it was filed, unlined. 	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the				
	the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this				
	b. With regard to any nucleotide an was carried out on the basis of th		nternational application, the international search				
	. —	onal application in written form.					
	filed together with the inte	ernational application in computer readable for	m.				
	furnished subsequently to this Authority in written form.						
	t	o this Authority in computer readble form.					
		bsequently furnished written sequence listing on as filed has been furnished.	does not go beyond the disclosure in the				
	the statement that the inf furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been				
	2. Certain claims were fou	ınd unsearchable (See Box I).	·				
	3. Unity of invention is lac	•					
	4. With regard to the title,						
	· ·	ubmitted by the applicant. shed by this Authority to read as follows:					
	the text has been establi	siled by this Additionly to read as follows.					
			•				
		e ·					
	5. With regard to the abstract,						
	the text has been establi	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Autho le date of mailing of this international search re	rity as it appears in Box III. The applicant may, aport, submit comments to this Authority.				
	6. The figure of the drawings to be put	olished with the abstract is Figure No.	· <u>1</u>				
	X as suggested by the app	olicant.	None of the figures.				
	because the applicant fa						
	because this figure bette	er characterizes the invention.					



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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16C33/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	GB 1 275 006 A (BURROUGHS CORPORATION) 24 May 1972 (1972-05-24) the whole document	1,3,6, 8-11,24
A .	US 5 683 183 A (MURAKI HIROMITSU ET AL) 4 November 1997 (1997-11-04) column 18, line 24 - line 64; figures 3-10	1,2
A .	EP 0 221 727 A (RELIANCE ELECTRIC CO) 13 May 1987 (1987-05-13) the whole document	1,7
A	J. CHAPPUIS: "Lubrication by a new principle: the use of non-wetting liquids" WEAR, vol. 77, 1982, pages 303-313, XP008019072 cited in the application page 303 -page 312	1,22
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filling date C* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filling date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
9 July 2003	16/07/2003
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Hoffmann, M

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International Application No PCT/GB 01255

(Continue ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
negory •	Ollahori of doddinesk, with indication, where appropriate, of the relevant passages	Tion the to ordinate.
	W. HILD et al., Microhydrodynamical studies of hydrophilic and hydrophobic surfaces, Proceedings of the 13th International Colloq. Tribology Esslingen, W.J. Bartz (ed.), page 821 - page 825, 2002 XP008019076 cited in the application page 824	18,25
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